

Custom 2:9 Serial HUB

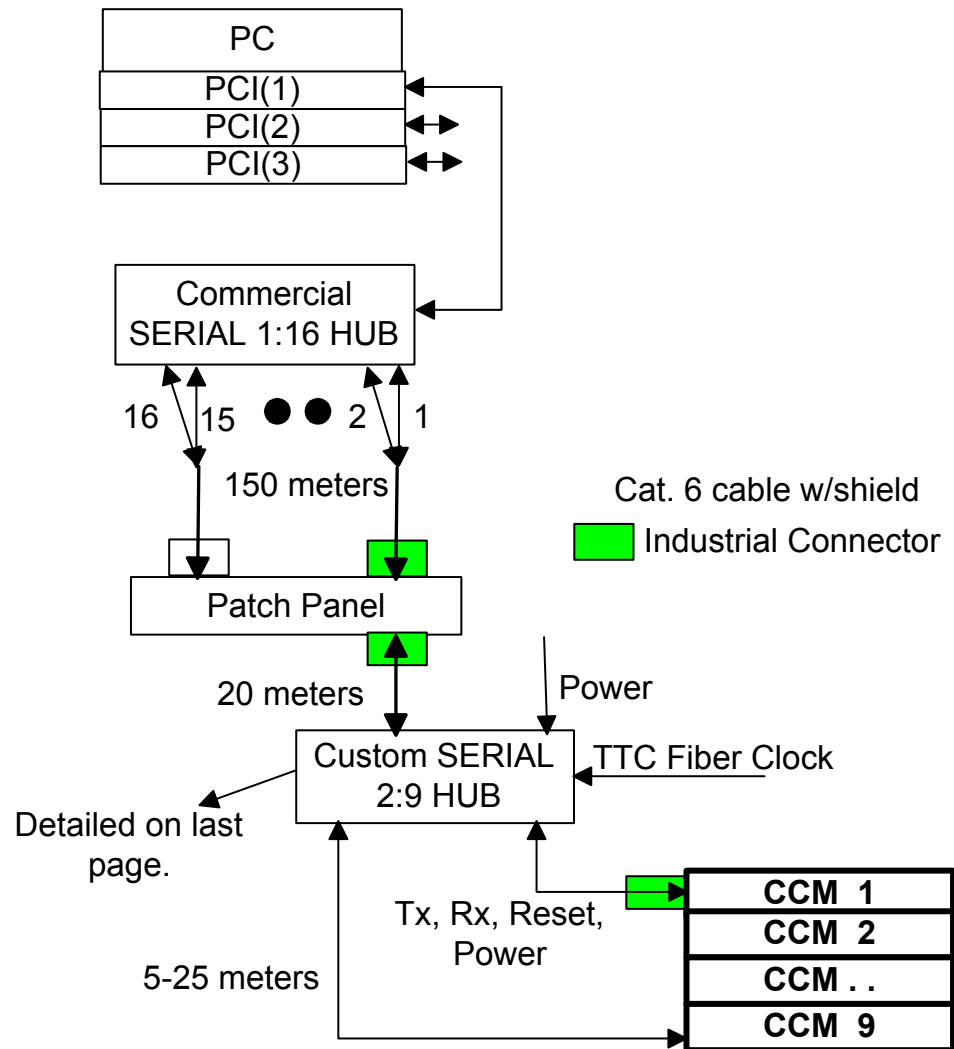
Need 132 CCMs for
HE/HB/HO/HF
3 > 1:16 commercial hubs
(1 for HE & HB, 1 for HO & 1 for HF)
18 > 2:9 custom hubs
> Patch Panels

Use 2 of the commercial hubs ports per
custom hub. One for selecting the CCM and
for generating a reset. Use the other port to
communicate with the CCM. The 2 ports of
the Commercial hub that goes to one Custom
hub can use the same Cat. 6 cable.

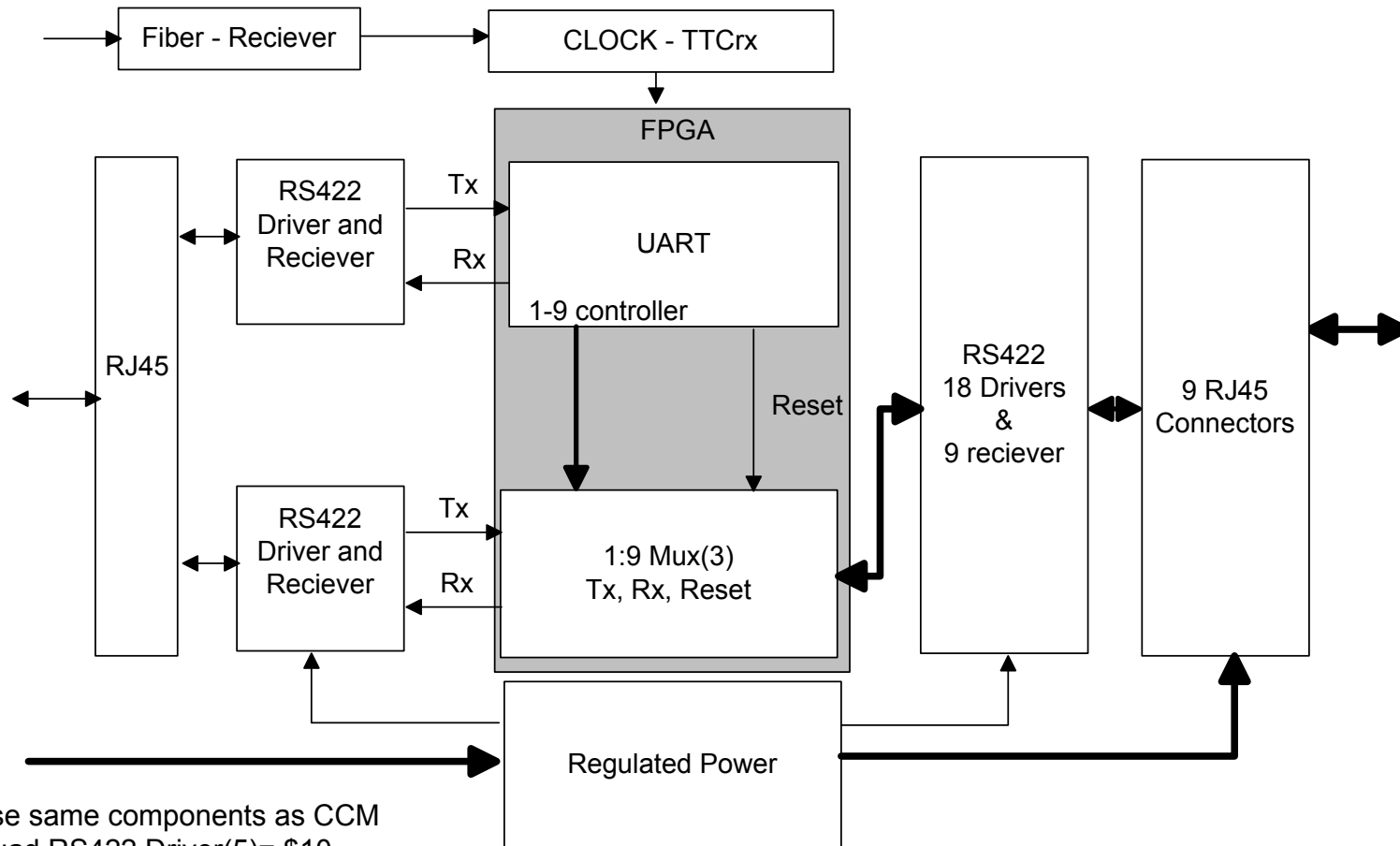
The cable between the Commercial hub and
the Patch Panel should have it's shield
connected at the hub, floating at the patch
panel.

The cable between the Patch Panel and the
Custom hub should have it's shield
connected at the Patch Panel.

The cable between the Custom hub and the
CCM should have it's shield connected at the
CCM.



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Use same components as CCM
 Quad RS422 Driver(5)= \$10
 Quad RS422 Reciever(3)= \$6
 FPGA(1)=\$30
 TTCrx/Regulators/Fiber Rec.=\$60
 Connectors =\$3 + \$18
 PCB=\$100
 Mechanical= \$80